



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/657,404
Source: Oipe
Date Processed by STIC: 9-22-03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/657,404

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. Please **ensure your subsequent submission is saved in ASCII text.**
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If **intentional**, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "**n**" can **only** represent a single nucleotide; "**Xaa**" can **only** represent a single amino acid



OIPE

RAW SEQUENCE LISTING

DATE: 09/22/2003

PATENT APPLICATION: US/10/657,404

TIME: 13:16:07

Input Set : A:\seq listing.txt

Output Set: N:\CRF4\09222003\J657404.raw

3 <110> APPLICANT: University of Strathclyde
 4 Halbert, Gavin
 5 Owens, Moira
 6 Baillie, George
 8 <120> TITLE OF INVENTION: Non-Naturally Occurring Lipoprotein Particle
 10 <130> FILE REFERENCE: P07885US-CIP
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/657,404
 C--> 13 <141> CURRENT FILING DATE: 2003-09-08
 15 <150> PRIOR APPLICATION NUMBER: PCT/GB97/02610
 16 <151> PRIOR FILING DATE: 1997-09-25
 18 <150> PRIOR APPLICATION NUMBER: GB 9620153.8
 19 <151> PRIOR FILING DATE: 1996-09-27
 21 <160> NUMBER OF SEQ ID NOS: 9
 23 <170> SOFTWARE: PatentIn version 3.1
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 11
 27 <212> TYPE: PRT
 C--> 28 <213> ORGANISM: Artificial/Unknown *see item 10 on error summary report.*
 30 <220> FEATURE:
 31 <221> NAME/KEY: misc_feature
 32 <223> OTHER INFORMATION: Apo B binding site sequence
 35 <400> SEQUENCE: 1
 37 Lys Ala Glu Tyr Lys Lys Asn Lys His Arg His
 38 1 5 10
 41 <210> SEQ ID NO: 2
 42 <211> LENGTH: 11
 43 <212> TYPE: PRT
 C--> 44 <213> ORGANISM: Artificial/Unknown
 46 <220> FEATURE:
 47 <221> NAME/KEY: misc_feature
 48 <223> OTHER INFORMATION: Apo B binding site sequence
 51 <400> SEQUENCE: 2
 53 Thr Thr Arg Leu Thr Arg Lys Arg Gly Leu Lys
 54 1 5 10
 57 <210> SEQ ID NO: 3
 58 <211> LENGTH: 11
 59 <212> TYPE: PRT
 C--> 60 <213> ORGANISM: Artificial/Unknown
 62 <220> FEATURE:
 63 <221> NAME/KEY: misc_feature
 64 <223> OTHER INFORMATION: Synthesised peptide analogue of the Apo B 100 binding site
 67 <220> FEATURE:
 68 <221> NAME/KEY: misc_feature

**Does Not Comply
Corrected Diskette Needed**

*see item 10 on error
summary report.*

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/657,404

DATE: 09/22/2003

TIME: 13:16:07

Input Set : A:\seq_listing.txt

Output Set: N:\CRF4\09222003\J657404.raw

69 <223> OTHER INFORMATION: Cholesterol linked at C-terminus of peptide analogue

72 <220> FEATURE:

73 <221> NAME/KEY: misc_feature

74 <223> OTHER INFORMATION: Retinoic acid linked at N-terminus of peptide analogue

77 <400> SEQUENCE: 3

79 Leu Arg Leu Thr Arg Lys Arg Gly Leu Lys Leu

80 1 5 10

83 <210> SEQ ID NO: 4

84 <211> LENGTH: 13

85 <212> TYPE: PRT

C--> 86 <213> ORGANISM: Artificial/Unknown

88 <220> FEATURE:

89 <221> NAME/KEY: misc_feature

90 <223> OTHER INFORMATION: Synthesised peptide analogue of the Apo B 100 binding site

93 <220> FEATURE:

94 <221> NAME/KEY: misc_feature

95 <223> OTHER INFORMATION: Retinoic acid linked at N-terminus of peptide analogue

98 <400> SEQUENCE: 4

100 Gly Thr Thr Arg Leu Thr Arg Lys Arg Gly Leu Lys Leu

101 1 5 10

104 <210> SEQ ID NO: 5

105 <211> LENGTH: 22

106 <212> TYPE: PRT

C--> 107 <213> ORGANISM: Artificial/Unknown

109 <220> FEATURE:

110 <221> NAME/KEY: misc_feature

111 <223> OTHER INFORMATION: Synthesised peptide analogue of the Apo B 100 binding site

114 <220> FEATURE:

115 <221> NAME/KEY: misc_feature

116 <223> OTHER INFORMATION: Cholesterol linked at C-terminus of peptide analogue

119 <220> FEATURE:

120 <221> NAME/KEY: misc_feature

121 <223> OTHER INFORMATION: Retinoic acid linked at N-terminus of peptide analogue

124 <400> SEQUENCE: 5

126 Tyr Lys Leu Gln Gly Thr Thr Arg Leu Thr Arg Lys Arg Gly Leu Lys

127 1 5 10 15

130 Leu Ala Thr Ala Leu Ser

131 20

134 <210> SEQ ID NO: 6

135 <211> LENGTH: 22

136 <212> TYPE: PRT

C--> 137 <213> ORGANISM: Artificial/Unknown

139 <220> FEATURE:

140 <221> NAME/KEY: misc_feature

141 <223> OTHER INFORMATION: Synthesised peptide analogue of the Apo B 100 binding site

144 <220> FEATURE:

145 <221> NAME/KEY: misc_feature

146 <223> OTHER INFORMATION: Retinoic acid linked at N-terminus of peptide analogue

149 <400> SEQUENCE: 6

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/657,404

DATE: 09/22/2003

TIME: 13:16:07

Input Set : A:\seq_listing.txt

Output Set: N:\CRF4\09222003\J657404.raw

151 Tyr Lys Leu Glu Gly Thr Thr Arg Leu Thr Arg Lys Arg Gly Leu Lys
 152 1 5 10 15

155 Leu Ala Thr Ala Leu Ser

156 20

159 <210> SEQ ID NO: 7

160 <211> LENGTH: 22

161 <212> TYPE: PRT

C--> 162 <213> ORGANISM: Artificial/Unknown

164 <220> FEATURE:

165 <221> NAME/KEY: misc_feature

166 <223> OTHER INFORMATION: Synthesised peptide analogue of the Apo B 100 binding site

169 <220> FEATURE:

170 <221> NAME/KEY: misc_feature

171 <223> OTHER INFORMATION: Retinoic acid linked at N-terminus of peptide analogue

174 <400> SEQUENCE: 7

176 Thr Gly Lys Arg Tyr Arg Leu Lys Thr Leu Arg Thr Leu Lys Lys Thr

177 1 5 10 15

180 Ser Leu Leu Glu Ala Ala

181 20

184 <210> SEQ ID NO: 8

185 <211> LENGTH: 9

186 <212> TYPE: PRT

187 <213> ORGANISM: Artificial Sequence

189 <220> FEATURE:

190 <223> OTHER INFORMATION: Apo B binding site sequence

192 <400> SEQUENCE: 8

194 Arg Leu Thr Arg Lys Arg Gly Leu Lys

195 1 5

198 <210> SEQ ID NO: 9

199 <211> LENGTH: 25

200 <212> TYPE: PRT

201 <213> ORGANISM: Artificial Sequence

203 <220> FEATURE:

204 <223> OTHER INFORMATION: Synthesised peptide analogue of the Apo B 100 binding site

206 <220> FEATURE:

207 <221> NAME/KEY: MISC_FEATURE

208 <223> OTHER INFORMATION: Cholesterol linked at C-terminus of peptide analogue

211 <220> FEATURE:

212 <221> NAME/KEY: MISC_FEATURE

213 <223> OTHER INFORMATION: Pyrene butyric acid linked at N-terminus of peptide analogue

216 <400> SEQUENCE: 9

218 Lys Leu Glu Gly Thr Thr Arg Leu Thr Arg Lys Arg Gly Leu Lys Leu

219 1 5 10 15

222 Ala Thr Ala Leu Ser Leu Phe Leu Phe

223 20 25

VERIFICATION SUMMARYPATENT APPLICATION: **US/10/657,404**

DATE: 09/22/2003

TIME: 13:16:08

Input Set : **A:\seq listing.txt**Output Set: **N:\CRF4\09222003\J657404.raw**

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:28 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:44 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:60 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:86 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:107 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:137 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:162 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7